

# Meeting/Teleconference Name, Date

# Name of Meeting

Attendees:  Attendee Cancer Center, etc.  Sinoula Apostolou Fox Chase Cancer Center Steven Eschrich Moffitt Cancer Center Zhangzhi Hu Georgetown Medical Center Michael Keller Booz Allen Hamilton Juli Klemm 3rd Millennium Simon Lin Duke University James Lyons-Weiler Pittsburgh Patrick McConnell Duke University Thomas Moloshok Fox Chase Cancer Center Salvatore Mungal Duke University Michael Ochs Fox Chase Cancer Center Scott Oster Ohio State Univ Joshua Philipps NCICB Jarek Puszynski SAIC Liat Shimoni Fox Chase Cancer Center Jennifer Shoemaker Duke University Medical Center Craig Street Penn Qing Xiao JPL  Introduction:  Roll call. open meeting, review meeting goals - Patrick McConnell and Simon Lin (Duke) will give presentation on MIAPE and mzXML - Introduction of new proteomics SIG lead – Sinoula Apostolou Announcements - Appointed facilitators for SIG  — Leo Cheung from U. Hawaii. Will help on BCDE from cross country workspace. Work on beta standards, controlled vocabularies - Meeting will be held for new facilitators in ~ 2 weeks  Follow up on action items:  Duke and FCCC sharing out data models for SIG - FCCC has most of the documents together. Will wait until the next meeting where LIMS is discussed.	Date, Time &	October 19	2004 2:00 2:00	EDT			
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	action items:	Duke and FCCC sharing out data models for SIG					

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- FCCC have comparison of structure between MIAPE standard
- Duke is at the stage where the white papers are being drafted. Do not have solid data models. May have data model by next meeting.

#### Presentation:

mzXML presentation by Patrick McConnell and Simon Lin

Slides can be found at the following link:

http://cabig.nci.nih.gov/workspaces/ICR/Meetings/SIGs/Proteomics/20041018 mzXML p resentation

The link to information about mzXML is:

http://sashimi.sourceforge.net/software\_glossolalia.html

#### Open discussion

The group discussed mzXML

- MzXML is intended for proteomics data I/O. However, the general utility of XML breaks down with large data sets. It may be possible to address this issue with Base64 encoding, for example.
- There is overlap between the MAPE and the mzXML efforts. It is likely that PSI-ML will be superceded by mzXML
- The concept of "study" is not represented in mzXML. Thus, database developers and data producers should work together to determine which data elements are required to produce a study. This requirement should be fed back to the developers of mzXML.
- Note that XML is not a database or an object model, though one can write it to implement an object model.
- mzXML, along with the MIAPE efforts, represents an immature, emerging standard. To deal with this, one should design software with a flexible architecture and have the ability to migrate to the standards as they evolve. Build what you can today, but don't lock into anything too specific. Standards take a long time!

#### For raw data storage

- MIAPE describes minimum data elements for proteomics experiments
- PSI-ML describes data elements however, is still abstract

### Standards

The MIAPE effort has two arms: 1) PSI-ontology, which will ultimately be a part of the MGED ontology and 2) PSI-ML, which describes the actual data elements. Pedro was a precursor to MIAPDuke is collaborating with the EDRN to look into merging their schemas. Zhanghi Hu from the Protein Information Resource (PIR) at Georgetown University Medical Center met with Rolf Apweiler on October 19. Rolf is the head of EBI Sequence Database Group and of the HUPO PSI group. He presented some updated information on the current state of MIAPE and standard data formats (PSI-ML, mzData and mzIdent), which will be presented by Rolf in the HUPO 3rd ANNUAL WORLD CONGRESS in Beijing.

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There are two modules in the PSI-ML, mzData and mzIdent. mzData is used for mass spectrometry data and is "now in a mature state", and mzIdent is for a 'search engine' (peptide mapping) and is ongoing. There were comparisons between mzXML and PSI-ML in the SIG discussion. It seemed that the audiences' impression was that PSI-ML is still abstract, while mzXML is more tangible. There seemed to be a consensus emerged from the group that PSI-ML will be superceded by mzXML. My question is, given the current state of the PSI-ML, what would be the best way to adopt a standard format for proteomics data, one or the other, or a merged/combined version of the two? I would be interested in knowing your opinions as well as of others in the group. I would also be glad to get more information from the HUPO PSI group if necessary.

## Ontologies and Controlled Vocabularies

- discussion on time frame for ontology. May take many years.JPL is exploring an ontology-driven model for core data elements. The advantage to this approach is that while terms may change, an ontology provides the concept of relationships and can potentially be merged with other ontologies.
- The PSI-ontology effort is at a very early stage. This group may need to seek the help of the VCDE group toward the issue of ontologies and controlled vocabularies for proteomics

The group agreed that mzXML should be adopted as the standard of data exchange within the Proteomics SIG.

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# Action Items:

Name Responsible	Action Item	Date Due	Notes
Michael Ochs	Share current resources to SIG	11/1/04	
Qing Xiao	Send a summary of the requirements of the SIG with respect to ontology	11/1/04	
Patrick McConnell	Email slides and link to XML	10/18/04	
Juli Klemm	Contact the VCDE workspace about the decision of this SIG to use mzXML as a data exchange standard	11/1/04	